

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A heat radiating device comprising:  
a heat radiating substrate containing Al as a major component;  
a metal film containing Cu, Ag, Sn, Ni, or Au disposed on the heat radiating substrate;  
and  
an oxide film formed on a portion of the heat radiating substrate, wherein the heat radiating substrate is disposed inside a case.
2. (Previously Presented) A heat radiating device according to claim 1, wherein the metal film consists of a plating film.
3. (Previously Presented) A heat radiating device according to claim 1, wherein the metal film is configured to contact a metal body provided on a back surface of a semiconductor device.
4. (Previously Presented) A heat radiating device according to claim 1, wherein a surface of the heat radiating substrate opposite to the surface over which the metal film is disposed is coupled to an external device.
5. (Currently amended) A semiconductor module comprising:  
a semiconductor device including a semiconductor element, pads coupled electrically to bonding electrodes of the semiconductor element, and an island disposed on a back surface of the

semiconductor element, said semiconductor device integrally sealed with resin-~~except where the island and the pads are disposed;~~

a heat radiating substrate containing Al as a major component;

a first metal film containing Cu, Ag, Sn, Ni, or Au and disposed on the heat radiating substrate,

wherein the first metal film and the island are coupled by brazing solder, conductive paste, or adhering material having thermal conductivity; and

an oxide film formed on a portion of the heat radiating substrate, wherein the semiconductor module heat radiating device is disposed inside a case.

6. (Previously Presented) A semiconductor module according to claim 5, wherein a second metal film containing Cu as a major component is disposed between the first metal film and the island.

7. (Original) A semiconductor module according to claim 6, wherein the island and the metal plate are formed integrally by the etching process.

8. (Original) A semiconductor module according to claim 5, wherein a back surface of the semiconductor element is adhered to the metal plate.

9. (Original) A semiconductor module according to claim 5, wherein back surfaces of the pads and a back surface of the island are arranged substantially on a same planar surface.

10. (Original) A semiconductor module according to claim 8, wherein back surfaces of the pads and a back surface of the semiconductor element are arranged substantially on a same planar surface.

11. (Previously Presented) A semiconductor module according to claim 9 or claim 10, wherein a back surface of the insulating resin projects beyond back surfaces of the pads.

12. (Previously Presented) A semiconductor module according to claim 11, wherein side surfaces of the pads and the back surface of the insulating resin extending from the side surfaces of the pads draw a same curved surface.

13. (Previously Presented) A semiconductor module according to claim 12, further comprising: a flexible sheet having conductive patterns coupled electrically to the semiconductor device, said sheet provided between the semiconductor device and the radiation substrate; and

an opening provided in the flexible sheet to correspond to the island.

14. (Currently amended) A semiconductor module comprising:  
a semiconductor device including a semiconductor element, pads coupled electrically to bonding electrodes of the semiconductor element, and a radiating electrode disposed on a back surface of the semiconductor element, said semiconductor element integrally sealed with resin ~~except where the radiating electrode and the pads are disposed;~~

a heat radiating substrate containing Al as a major component;

a first metal film containing Cu, Ag, Sn, Ni, or Au disposed on the heat radiating substrate,

wherein the first metal film and the radiating electrode are coupled by brazing solder, conductive paste, or adhering material having thermal conductivity; and

an oxide film formed on a portion of the heat radiating substrate, wherein the semiconductor module heat radiating device is disposed inside a.

15. (Previously Presented) A semiconductor module according to claim 14, further comprising:

a second metal film containing Cu as a major component and disposed between the first metal film and the radiating electrode.

16. (Previously Presented) A semiconductor module according to claim 14, wherein the radiating electrode and the metal plate are formed integrally by etching.

17. (Previously Presented) A semiconductor module according to claim 14, wherein back surfaces of the pads and the back surface of the radiation electrode are arranged substantially on a same planar surface.

18. (Previously Presented) A semiconductor module according to claim 17, wherein a back surface of the insulating resin projects beyond the back surfaces of the pads.

19. (Previously Presented) A semiconductor module according to claim 18, wherein side surfaces of the pads and the back surface of the insulating resin extending from the side surfaces of the pads draw a same curved surface.

20. (Previously Presented) A semiconductor module according to claim 19, further comprising:

a flexible sheet having conductive patterns coupled electrically to the semiconductor device, said flexible sheet provided between the semiconductor device and the heat radiating substrate; and

an opening provided in the flexible sheet to correspond to the radiating electrode.

21. (Currently amended) A semiconductor module comprising:

a semiconductor device including a semiconductor element, leads coupled electrically to bonding electrodes of the semiconductor element, and an island whose back surface is disposed on a same surface level as a back surface of the leads; and

a heat radiating substrate containing Al as a major component;  
a first metal film containing Cu, Ag, Sn, Ni, or Au disposed on the heat radiating  
substrate,

wherein the first metal film and the island are coupled by brazing solder, conductive  
paste, or adhering material having thermal conductivity; and

an oxide film formed on a front and back surface of the heat radiating substrate, wherein  
the semiconductor module heat radiating device is disposed inside a case.

22. (Previously Presented) A semiconductor module according to claim 21, further  
comprising:

a second metal film containing Cu as a major component, said second metal film  
disposed between the first metal film and the island.

23. (Previously Presented) A semiconductor module according to claim 22, further  
comprising:

a flexible sheet having conductive patterns coupled electrically to the semiconductor  
device, said flexible sheet provided between the semiconductor device and the heat radiating  
substrate, and

an opening provided in the flexible sheet to correspond to the island.

24. (Original) A semiconductor module according to claim 13, claim 20 or claim 23,  
wherein the semiconductor device is a read/write amplifier IC for a hard disk.

25. (Previously Presented) A semiconductor module according to claim 13, claim 20 or  
claim 23, wherein the semiconductor device couples electrically to an external device through  
the heat radiating substrate.

Claims 26-31 (Canceled).

32. (Currently amended) A heat radiating device comprising:  
a heat radiating substrate containing Al as a major component;  
a metal film containing Cu, Ag, Sn, Ni, or Au disposed on the substrate,  
wherein the substrate is attached to a semiconductor device provided in a precision  
electronic equipment having at least a driving portion or a sliding portion; and  
an oxide film formed on a portion of the heat radiating substrate, wherein the  
semiconductor module heat radiating device is disposed inside a case.

33. (Previously Presented) A heat radiating device according to claim 32, wherein the  
metal film consists of a plating film.

34. (Previously Presented) A heat radiating device according to claim 32, wherein the  
metal film is configured to contact a metal body provided on a back surface of the semiconductor  
device.

35. (Currently amended) The heat radiating device according to claim 1, wherein the  
heat radiating substrate is disposed on a portion of a metal body substrate thermally coupled  
thereto, and wherein the heat radiating substrate is attached to a semiconductor device, whereby  
the heat radiation substrate provides minimal oxide particles scattering from the oxide film.

36. (Currently amended) The semiconductor module according to claim 5, wherein the  
heat radiating substrate is disposed on a portion of a metal body substrate thermally coupled  
thereto, and wherein the heat radiating substrate is attached to the semiconductor device,  
whereby the heat radiation substrate provides minimal oxide particles scattering from the oxide  
film.

37. (Currently amended) The semiconductor module according to claim 14, wherein the heat radiating substrate is disposed on a portion of a metal body substrate thermally coupled thereto, and wherein the heat radiating substrate is attached to the semiconductor device, whereby the heat radiation substrate provides minimal oxide particles scattering from the oxide film.

38. (Currently amended) The semiconductor module according to claim 21, wherein the heat radiating substrate is disposed on a portion of a metal body substrate thermally coupled thereto, and wherein the heat radiating substrate is attached to the semiconductor device, whereby the heat radiation substrate provides minimal oxide particles scattering from the oxide film.

39. (Currently amended) The heat radiating device according to claim 32, wherein the heat radiating substrate is disposed on a portion of a metal body substrate thermally coupled thereto, and wherein the heat radiating substrate is attached to the semiconductor device, whereby said heat radiation substrate provides minimal oxide particles scattering from the oxide film.

40. (New) A hard disk comprising a heat radiating device according to claim 1 mounted therein.

41. A hard disk comprising a semiconductor module according to claim 5 mounted therein.

42. A hard disk comprising a semiconductor module according to claim 14 mounted therein.

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43. A hard disk comprising a semiconductor module according to claim 21 mounted  
therein.

44. A hard disk comprising a semiconductor module according to claim 32 mounted  
therein.